```
                Truncation
 NEWS 38  AUG 18  Simultaneous left and right truncation added to ANABSTR

 NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:05:14 ON 11 SEP 2003

=> file .jacob
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                              ENTRY    SESSION
FULL ESTIMATED COST                            0.21       0.21

FILE 'CAPLUS' ENTERED AT 12:05:23 ON 11 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 12:05:23 ON 11 SEP 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'MEDLINE' ENTERED AT 12:05:23 ON 11 SEP 2003

FILE 'EMBASE' ENTERED AT 12:05:23 ON 11 SEP 2003
COPYRIGHT (C) 2003 Elsevier Science B.V.  All rights reserved.

FILE 'USPATFULL' ENTERED AT 12:05:23 ON 11 SEP 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> (microdevice or microchip or microtiter)(P)photo?(P)pattern(P)substrate(P)binding
L1            1 FILE CAPLUS
L2            2 FILE BIOSIS
L3            1 FILE MEDLINE
L4            1 FILE EMBASE
L5            8 FILE USPATFULL

TOTAL FOR ALL FILES
L6           13 (MICRODEVICE OR MICROCHIP OR MICROTITER)(P) PHOTO?(P) PATTERN(P)
                SUBSTRATE(P) BINDING

=> dup rem
ENTER L# LIST OR (END):l6
PROCESSING COMPLETED FOR L6
L7            11 DUP REM L6 (2 DUPLICATES REMOVED)

=> d l7 ibib abs total
```

L7 ANSWER 1 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2003:237907 USPATFULL
TITLE: Compositions and methods for the therapy and diagnosis of colon cancer
INVENTOR(S): King, Gordon E., Shoreline, WA, UNITED STATES
Meagher, Madeleine Joy, Seattle, WA, UNITED STATES
Xu, Jiangchun, Bellevue, WA, UNITED STATES
Secrist, Heather, Seattle, WA, UNITED STATES
Jiang, Yuqiu, Kent, WA, UNITED STATES
PATENT ASSIGNEE(S): Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003166064	A1	20030904
APPLICATION INFO.:	US 2002-99926	A1	20020314 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2001-33528, filed on 26 Dec 2001, PENDING Continuation-in-part of Ser. No. US 2001-920300, filed on 31 Jul 2001, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-302051P	20010629 (60)
	US 2001-279763P	20010328 (60)
	US 2000-223283P	20000803 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
LINE COUNT: 8531
AB Compositions and methods for the therapy and diagnosis of cancer, particularly colon cancer, are disclosed. Illustrative compositions comprise one or more colon tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly colon cancer.

L7 ANSWER 2 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2003:106233 USPATFULL
TITLE: Compositions and methods for the therapy and diagnosis of pancreatic cancer
INVENTOR(S): Benson, Darin R., Seattle, WA, UNITED STATES
Kalos, Michael D., Seattle, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Persing, David H., Redmond, WA, UNITED STATES
Hepler, William T., Seattle, WA, UNITED STATES
Jiang, Yuqiu, Kent, WA, UNITED STATES
PATENT ASSIGNEE(S): Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003073144	A1	20030417
APPLICATION INFO.:	US 2002-60036	A1	20020130 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-333626P	20011127 (60)
	US 2001-305484P	20010712 (60)

	US 2001-265305P	20010130 (60)
	US 2001-267568P	20010209 (60)
	US 2001-313999P	20010820 (60)
	US 2001-291631P	20010516 (60)
	US 2001-287112P	20010428 (60)
	US 2001-278651P	20010321 (60)
	US 2001-265682P	20010131 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
LINE COUNT: 14253
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for the therapy and diagnosis of cancer, particularly pancreatic cancer, are disclosed. Illustrative compositions comprise one or more pancreatic tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly pancreatic cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2002:272801 USPATFULL
TITLE: Compositions and methods for the therapy and diagnosis of colon cancer
INVENTOR(S): Stolk, John A., Bothell, WA, UNITED STATES
Xu, Jiangchun, Bellevue, WA, UNITED STATES
Chenault, Ruth A., Seattle, WA, UNITED STATES
Meagher, Madeleine Joy, Seattle, WA, UNITED STATES
PATENT ASSIGNEE(S): Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002150922	A1	20021017	
APPLICATION INFO.:	US 2001-998598	A1	20011116	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-304037P	20010710 (60)
	US 2001-279670P	20010328 (60)
	US 2001-267011P	20010206 (60)
	US 2000-252222P	20001120 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
LINE COUNT: 9233
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for the therapy and diagnosis of cancer, particularly colon cancer, are disclosed. Illustrative compositions comprise one or more colon tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly colon cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2002:251115 USPATFULL
TITLE: Microdevice containing photorecognizable coding patterns and methods of using and producing the same thereof
INVENTOR(S): Wu, Lei, San Diego, CA, UNITED STATES
Wang, Xiaobo, San Diego, CA, UNITED STATES
Tao, Gouliang, San Diego, CA, UNITED STATES
Xu, Junquan, San Diego, CA, UNITED STATES
Cheng, Jing, Beijing, CHINA
Huang, Mingxiang, San Diego, CA, UNITED STATES
Sun, Baoquan, Shangdong, CHINA
Shao, Wei, Nanjing, CHINA
Liu, Litian, Beijing, CHINA
Chen, Depu, Beijing, CHINA
Rothwarf, David M., La Jolla, CA, UNITED STATES
Yang, Weiping, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002137059	A1	20020926
APPLICATION INFO.:	US 2001-924428	A1	20010807 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	CN 2001-104318	20010228
	US 2001-264458P	20010126 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE, SUITE 500, SAN DIEGO, CA, 92130-2332
NUMBER OF CLAIMS: 114
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Page(s)
LINE COUNT: 3746
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention relates generally to the field of moiety or molecule analysis, isolation, detection and manipulation and library synthesis. In particular, the invention provides a microdevice, which microdevice comprises: a) a substrate; and b) a photorecognizable coding pattern on said substrate. Preferably, the microdevice does not comprise an anodized metal surface layer. Methods and kits for isolating, detecting and manipulating moieties, and synthesizing libraries using the microdevices are also provided. The invention further provides two-dimensional optical encoders and uses thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2002:243051 USPATFULL
TITLE: Compositions and methods for the therapy and diagnosis of ovarian cancer
INVENTOR(S): Algate, Paul A., Issaquah, WA, UNITED STATES
Jones, Robert, Seattle, WA, UNITED STATES
Harlocker, Susan L., Seattle, WA, UNITED STATES
PATENT ASSIGNEE(S): Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002132237	A1	20020919

APPLICATION INFO.: US 2001-867701 A1 20010529 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-207484P	20000526 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
LINE COUNT: 25718
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for the therapy and diagnosis of cancer, particularly ovarian cancer, are disclosed. Illustrative compositions comprise one or more ovarian tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly ovarian cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2002:242791 USPATFULL
TITLE: Compositions and methods for the therapy and diagnosis of colon cancer
INVENTOR(S): King, Gordon E., Shoreline, WA, UNITED STATES
Meagher, Madeleine Joy, Seattle, WA, UNITED STATES
Xu, Jiangchun, Bellevue, WA, UNITED STATES
Secrist, Heather, Seattle, WA, UNITED STATES
PATENT ASSIGNEE(S): Corixa Corporation, Seattle, WA, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002131971	A1	20020919
APPLICATION INFO.:	US 2001-33528	A1	20011226 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2001-920300, filed on 31 Jul 2001, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-302051P	20010629 (60)
	US 2001-279763P	20010328 (60)
	US 2000-223283P	20000803 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
LINE COUNT: 8083
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for the therapy and diagnosis of cancer, particularly colon cancer, are disclosed. Illustrative compositions comprise one or more colon tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly colon cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 7 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2002:235434 USPATFULL
TITLE: Biosensors, reagents and diagnostic applications of directed evolution
INVENTOR(S): Minshull, Jeremy, Menlo Park, CA, UNITED STATES
Davis, S. Christopher, San Francisco, CA, UNITED STATES
Welch, Mark, Fremont, CA, UNITED STATES
Raillard, Sun Ai, Mountain View, CA, UNITED STATES
Vogel, Kurt, Palo Alto, CA, UNITED STATES
Krebber, Claus, Mountain View, CA, UNITED STATES
PATENT ASSIGNEE(S): Maxygen, Inc., Redwood City, CA (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002127623	A1	20020912
APPLICATION INFO.:	US 2001-920607	A1	20010731 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-222056P	20000731 (60)
	US 2000-244764P	20001031 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: LAW OFFICES OF JONATHAN ALAN QUINE, P O BOX 458, ALAMEDA, CA, 94501
NUMBER OF CLAIMS: 130
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)
LINE COUNT: 6877
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods for sensing test stimuli using arrays of biopolymers are provided. Libraries of biopolymers, such nucleic acid variants, and expression products encoded by nucleic acid variants are provided. Reusable library arrays, and methods for their use are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 8 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2003:356878 BIOSIS
DOCUMENT NUMBER: PREV200300356878
TITLE: Improved Assay for the Collagen Binding Activity of von Willebrand Factor.
AUTHOR(S): Germer, Matthias (1); Behrmann, Mathias (1); Kloft, Michael (1); Kotitschke, Ronald (1)
CORPORATE SOURCE: (1) Research and Development, Biotest Pharma GmbH, Dreieich, Germany Germany
SOURCE: Blood, (November 16 2002) Vol. 100, No. 11 , pp. Abstract No. 2744. print.
Meeting Info.: 44th Annual Meeting of the American Society of Hematology Philadelphia, PA, USA December 06-10, 2002 American Society of Hematology
. ISSN: 0006-4971.
DOCUMENT TYPE: Conference
LANGUAGE: English
AB Background: Injury of the vessel wall leads to exposure of extracellular matrix and collagen fibers to the circulating blood. Platelets adhere to these structures and initiate arrest of blood flow. von Willebrand Factor (VWF) binds to collagen in the subendothelium and mediates adhesion via the GPIb/IX complex on the platelet. This biological activity can be examined directly in vitro using immobilised collagen on plates by means of an enzyme-linked immunosorbent assay. Although the first collagen-**binding** (VWF:CB) assay was described almost twenty years ago, this

test system has not yet found its way into routine analysis because the test results depend very much on the type and pre-treatment of collagen and the assay performance. Taking the proposed European Pharmacopoeia method as a starting point we established an optimised VWF:CB assay as an alternative method for the quantification of the activity in blood clotting factor VIII and VWF concentrates for the therapy of von Willebrand disease. Method: The assay is based on the following principle: 1. collagen fibrils (equine, type I) are immobilised on a **microtiter** plate, 2. serial dilutions of a reference preparation and VWF containing samples are prepared and bound to the precoated **microtiter** plate, 3. bound VWF is detected with a polyclonal antibody conjugate, 4. the TMB **substrate** reaction is followed **photometrically** with an ELISA reader. Results: VWF:CB test is highly specific and sensitive. Its broad working range for VWF (25 to 0,1 U/ml) under standard conditions is a prerequisite for its application for concentrates employing modern statistical procedures. Repeatability and intermediate precision are high (CV < 2 and 13 % respectively). Assay procedures for VWF antigen (VWF:Ag) and ristocetin co-factor activity (VWF:RCo) were analysed in parallel. For the VWF:Ag an immuno-turbidimetric method with a STA compactTM and STA LiatestTM VWF reagents was used. For VWF:RCo, platelet aggregation was followed by turbidimetry in an APACT 2TM. The latter is currently the standard method for the evaluation of the VWF activity in vitro although the test requires the non-physiological mediator ristocetin, is cumbersome and not always reproducible. The VWF:CB method appears not only to be easier to carry out than the vWF:RCo method but also to have a higher repeatability and intermediate precision and to allow better standardisation. Different commercial FVIII concentrates were tested for VWF:Ag, VWF:RCo and VWF:CB in parallel. The concentrates in this analysis gave different **patterns** of reactivity in theses three test systems. Correlation between vWF:RCo and VWF:CB was excellent whereas the ratio of VWF:AG and VWF:CB depends on the type of product and may well serve as a measure for concentrate quality. Since collagen I fibrils are known to predominantly bind high VWF multimers this is likely to account for these differences. Discussion: The new VWF:CB assay is characterized by its wide range, safety, robustness, avoidance of a non-physiological activator and the option to determine the VWF:Ag simultaneously. Its high sensitivity may make it useful for the measurement of one functional activity of VWF in VWF concentrates and factor VIII products having VWF and for the clinical diagnosis of von Willebrand desease.

L7 ANSWER 9 OF 11 USPATFULL on STN

ACCESSION NUMBER:	97:83807 USPATFULL
TITLE:	Use of specific properties of allergens, allergens from animal or botanical sources and methods for their isolation
INVENTOR(S):	Berrens, Lubertus, Utrecht, Netherlands
PATENT ASSIGNEE(S):	Laboratorios Leti S.A., Barcelona, Spain (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5667979		19970916	
APPLICATION INFO.:	US 1990-461642		19900105	(7)

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1989-200027	19890105

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Saunders, David
LEGAL REPRESENTATIVE:	Young & Thompson
NUMBER OF CLAIMS:	9
EXEMPLARY CLAIM:	1

NUMBER OF DRAWINGS: 14 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 1662
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB It was found that atopic allergens have enzymatic properties, in particular the properties to hydrolyze amide and/or ester linkages. These properties may be used for various purposes, e.g. for analysis of samples, standardization of pharmaceutical compositions and also for the preparation of the allergens in a pure form.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1997:380130 CAPLUS
DOCUMENT NUMBER: 127:128632
TITLE: Light-directed assembly of nanoparticles
AUTHOR(S): Vossmeyer, Tobias; DeIonno, Erica; Heath, James R.
CORPORATE SOURCE: Mol. Design. Inst., Lawrence Berkeley Lab. Dep. Chem. Biochem., Univ. California, Los Angeles, CA, 90095-1569, USA
SOURCE: Angewandte Chemie, International Edition in English (1997), 36(10), 1080-1083
CODEN: ACIEAY; ISSN: 0570-0833
PUBLISHER: Wiley-VCH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Cleaned glass or silicon slides were treated with 3-aminopropyldimethylethoxysilane and the surface amino groups were reacted with nitroveratryloxycarbonylglycine (NVOC) to produce **photosensitive** surface. Imagewise irradn. with .lambda.>340 nm through a **microchip** mask yielded a **pattern** of free- and protected amino groups. The patterned **substrate** was kept overnight in the soln. contg. 12-aminododecane-capped Au particles to bind Au nanocrystals to the surface-bound amino-groups. To amplify particle **binding** the surface-bound Au particles were treated with 1,8-octanedithiol to yield free, surface-bound thiol groups on the areas where Au particles were attached to the surface. Following the dithiol treatment the slides were dipped again in the gold soln. to bind more Au nanocrystals on the previously bound particles. This dithiol amplification was repeated several times to enhance the micropattern contrast until it was readily visible with the naked eye or via optical microscope.

L7 ANSWER 11 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 1
ACCESSION NUMBER: 1988:309885 BIOSIS
DOCUMENT NUMBER: BA86:26923
TITLE: SELECTIVE MODULATION OF TWO HUMAN MONOCYTE FC RECEPTORS FOR IGG BY IMMOBILIZED IMMUNE COMPLEXES.
AUTHOR(S): VAN DE WINKEL J G J; VAN DUIJNHOVEN H L P; VAN OMMEN R; CAPEL P J A; TAX W J M
CORPORATE SOURCE: DEP. EXP. IMMUNOL., STATE UNIV. UTRECHT, CATHARYNESINGEL 59, 3511 GG UTRECHT, NETHERLANDS.
SOURCE: J IMMUNOL, (1988) 140 (10), 3515-3521.
CODEN: JOIMA3. ISSN: 0022-1767.
FILE SEGMENT: BA; OLD
LANGUAGE: English
AB Two types of IgG FcR, FcRI and FcRII, are constitutively expressed by human monocytes. FcRI (identified by mAb 32.2) binds human (h) IgG, FcRII (identified by mAb IV.3) has a low affinity for hIgG but interacts strongly with murine (m) IgG1. These receptors can be assayed by using indicator E sensitized by hIgG (EA-hIgG) or mIgG1 (EA-mIgG1), respectively. We further characterized these two FcR by modulation studies by using **substrate**-immobilized immune complexes containing rabbit IgG, goat IgG, or one of the mouse Ig classes or subclasses. After

incubating monocytes in **microtiter** wells containing such immune complexes, **binding** of the two types of indicator red cells on the apical surface of the monocytes was quantitated using a **photometric** assay employing the pseudoperoxidase activity of E. No effect on the **binding** of sensitized E was observed after incubation of monocytes with immune complexes containing mouse IgE, IgA, or IgM, or F(ab')2 fragments of rabbit IgG. High concentrations of immune complexes containing IgG of mouse, rabbit, or goat, however, were able to induce a decrease in **binding** of both types of sensitized E, suggestive of modulation of both FcRI and FcRII. At lower concentrations of immune complexes, more selective **patterns** of modulation emerged. Under these conditions, immune complexes containing mIgG1 or mIgG2b, or, surprisingly, goat IgG induced a selective decrease in the **binding** of EA-mIgG1 (FcRII modulation), while immune complexes containing mIgG2a or rabbit IgG mainly affected the **binding** of EA-hIgG (FcRI modulation). By using anti-FcR mAb IV.3, it was confirmed that FcRII was modulated from the apical surface of monocytes after incubation on immune complex coated **substrates**. Selectivity of FcR-modulation was demonstrated by showing that under these conditions **binding** of anti-C receptor mAb, and several other anti-monocyte mAb did not decrease.

=> Jacob CheuExaminerArt Unit 1641
L8   0 FILE CAPLUS
L9   0 FILE BIOSIS
L10   0 FILE MEDLINE
L11   0 FILE EMBASE
L12   0 FILE USPATFULL

TOTAL FOR ALL FILES
L13   0 JACOB CHEUEXAMINERART UNIT 1641

=>

=>

=>

=>

=>

=> file .chemistry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	48.84	49.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-0.65

FILE 'CAPLUS' ENTERED AT 12:11:52 ON 11 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE 'BIOTECHNO' ENTERED AT 12:11:52 ON 11 SEP 2003

FILE 'COMPENDEX' ENTERED AT 12:11:52 ON 11 SEP 2003

```
FILE 'ANABSTR' ENTERED AT 12:11:52 ON 11 SEP 2003
COPYRIGHT (c) 2003 THE ROYAL SOCIETY OF CHEMISTRY (RSC)

FILE 'CERAB' ENTERED AT 12:11:52 ON 11 SEP 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'METADEX' ENTERED AT 12:11:52 ON 11 SEP 2003
COPYRIGHT (c) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'USPATFULL' ENTERED AT 12:11:52 ON 11 SEP 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> (microchip or microdevice or microtiter) and substrate and binding partner
L14           6 FILE CAPLUS
L15           0 FILE BIOTECHNO
L16           0 FILE COMPENDEX
L17           0 FILE ANABSTR
L18           0 FILE CERAB
L19           0 FILE METADEX
L20        3543 FILE USPATFULL

TOTAL FOR ALL FILES
L21        3549 (MICROCHIP OR MICRODEVICE OR MICROTITER) AND SUBSTRATE AND BINDI
                NG PARTNER

=> l21 and (light or photo)
L22           1 FILE CAPLUS
L23           0 FILE BIOTECHNO
L24           0 FILE COMPENDEX
L25           0 FILE ANABSTR
L26           0 FILE CERAB
L27           0 FILE METADEX
L28        2956 FILE USPATFULL

TOTAL FOR ALL FILES
L29        2957 L21 AND (LIGHT OR PHOTO)

=> l29 and (bind(8A)(cell or DNA or protein or bacteria or virus))
L30           0 FILE CAPLUS
L31           0 FILE BIOTECHNO
L32           0 FILE COMPENDEX
L33           0 FILE ANABSTR
L34           0 FILE CERAB
L35           0 FILE METADEX
L36        2681 FILE USPATFULL

TOTAL FOR ALL FILES
L37        2681 L29 AND (BIND(8A)(CELL OR DNA OR PROTEIN OR BACTERIA OR VIRUS))

=> d l22 ibib abs total

L22  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:         2003:396364  CAPLUS
DOCUMENT NUMBER:          138:381662
TITLE:                    Precipitation of metallic compound in method and
                          apparatus for the identification and/or the
                          quantification of a target compound obtained from a
                          biological sample upon chips
INVENTOR(S):              Remacle, Jose; Demarteau, Joseph
PATENT ASSIGNEE(S):       Belg.
SOURCE:                   U.S. Pat. Appl. Publ., 27 pp., Cont.-in-part of U.S.
                          Ser. No. 574,626.
                          CODEN: USXXCO
```

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003096321	A1	20030522	US 2002-189288	20020701
EP 1054259	A1	20001122	EP 1999-870106	19990519
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2003124522	A1	20030703	US 2000-574626	20000519

PRIORITY APPLN. INFO.: EP 1999-870106 A 19990519
EP 2000-870025 A 20000218
US 2000-574626 A2 20000519

AB The present invention is related to a method for the identification and/or the quantification of a target compd. obtained from a sample, preferably a biol. sample, comprising the steps of putting into contact the target compd. with a capture mol. in order to allow a specific binding between said target compd. with a capture mol., said capture mol. being fixed upon a surface of a solid support according to an array comprising a d. of at least 20 discrete regions per cm2, each of said discrete regions being fixed with one species of capture mols., performing a reaction leading to a ppt. formed at the location of said binding, detg. the possible presence of ppt.(s) in discrete region(s), and correlating the presence of the ppt.(s) at the discrete region(s) with the identification and/or a quantification of said target compd. Silver enhancement was used in detection of DNA or proteins on biochips, in microarray anal. of gene expression of livers of phenobarbital-treated rats, and in detection of IgE and human autoimmune antibodies.

=> BIND(8A)(CELL OR DNA OR PROTEIN OR BACTERIA OR VIRUS)
L38 55410 FILE CAPLUS
L39 31503 FILE BIOTECHNO
L40 816 FILE COMPENDEX
L41 140 FILE ANABSTR
L42 0 FILE CERAB
L43 14 FILE METADEX
L44 45701 FILE USPATFULL

TOTAL FOR ALL FILES
L45 133584 BIND(8A)(CELL OR DNA OR PROTEIN OR BACTERIA OR VIRUS)

=> l45 and l28
L46 0 FILE CAPLUS
L47 0 FILE BIOTECHNO
L48 0 FILE COMPENDEX
L49 0 FILE ANABSTR
L50 0 FILE CERAB
L51 0 FILE METADEX
L52 2681 FILE USPATFULL

TOTAL FOR ALL FILES
L53 2681 L45 AND L28

=> l53 and py>1999
L54 0 FILE CAPLUS
L55 0 FILE BIOTECHNO
L56 0 FILE COMPENDEX
L57 0 FILE ANABSTR
L58 0 FILE CERAB
L59 0 FILE METADEX
L60 2374 FILE USPATFULL

```
TOTAL FOR ALL FILES
L61        2374 L53 AND PY>1999

=> l61 and pattern
L62           0 FILE CAPLUS
L63           0 FILE BIOTECHNO
L64           0 FILE COMPENDEX
L65           0 FILE ANABSTR
L66           0 FILE CERAB
L67           0 FILE METADEX
L68        2017 FILE USPATFULL

TOTAL FOR ALL FILES
L69        2017 L61 AND PATTERN

=> file .jacob
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    67.76     116.81

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -0.65      -1.30

FILE 'CAPLUS' ENTERED AT 12:19:38 ON 11 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 12:19:38 ON 11 SEP 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'MEDLINE' ENTERED AT 12:19:38 ON 11 SEP 2003

FILE 'EMBASE' ENTERED AT 12:19:38 ON 11 SEP 2003
COPYRIGHT (C) 2003 Elsevier Science B.V.  All rights reserved.

FILE 'USPATFULL' ENTERED AT 12:19:38 ON 11 SEP 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> (microchip or microdevice or microtiter)(P)pattern(P)substrate(P)(DNA or virus
or bacteria or cell or protein or RNA)
L70           15 FILE CAPLUS
L71           10 FILE BIOSIS
L72            5 FILE MEDLINE
L73            7 FILE EMBASE
L74           39 FILE USPATFULL

TOTAL FOR ALL FILES
L75           76 (MICROCHIP OR MICRODEVICE OR MICROTITER)(P) PATTERN(P) SUBSTRATE
                 (P)(DNA OR VIRUS OR BACTERIA OR CELL OR PROTEIN OR RNA)

=> l75 and py>1998
L76            9 FILE CAPLUS
L77            6 FILE BIOSIS
L78            2 FILE MEDLINE
L79            3 FILE EMBASE
L80           34 FILE USPATFULL

TOTAL FOR ALL FILES
L81           54 L75 AND PY>1998

=> dup rem
```

PRIORITY INFORMATION:	US 2001-277168P	20010320 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	LEXICON GENETICS INCORPORATED, 8800 TECHNOLOGY FOREST PLACE, THE WOODLANDS, TX, 77381-1160	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1074	

AB Novel human polynucleotide and polypeptide sequences are disclosed that can be used in therapeutic, diagnostic, and pharmacogenomic applications.

L99 ANSWER 2 OF 23 USPATFULL on STN

ACCESSION NUMBER:	2003:237907 USPATFULL			
TITLE:	Compositions and methods for the therapy and diagnosis of colon cancer			
INVENTOR(S):	King, Gordon E., Shoreline, WA, UNITED STATES Meagher, Madeleine Joy, Seattle, WA, UNITED STATES Xu, Jiangchun, Bellevue, WA, UNITED STATES Secrist, Heather, Seattle, WA, UNITED STATES Jiang, Yuqiu, Kent, WA, UNITED STATES			
PATENT ASSIGNEE(S):	Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)			
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003166064	A1	20030904	<--
APPLICATION INFO.:	US 2002-99926	A1	20020314	(10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-33528, filed on 26 Dec 2001, PENDING Continuation-in-part of Ser. No. US 2001-920300, filed on 31 Jul 2001, PENDING			
	NUMBER	DATE		
PRIORITY INFORMATION:	US 2001-302051P	20010629 (60)		
	US 2001-279763P	20010328 (60)		
	US 2000-223283P	20000803 (60)		
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092			
NUMBER OF CLAIMS:	17			
EXEMPLARY CLAIM:	1			
LINE COUNT:	8531			

AB Compositions and methods for the therapy and diagnosis of cancer, particularly colon cancer, are disclosed. Illustrative compositions comprise one or more colon tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly colon cancer.

L99 ANSWER 3 OF 23 USPATFULL on STN

ACCESSION NUMBER:	2003:232512 USPATFULL	
TITLE:	Novel human transporter proteins	
INVENTOR(S):	Turner, Alex, The Woodlands, TX, UNITED STATES Zambrowicz, Brian, The Woodlands, TX, UNITED STATES Nehls, Michael, Stockdorf, GERMANY, FEDERAL REPUBLIC OF Friedrich, Glenn A., The Woodlands, TX, UNITED STATES Sands, Arthur T., The Woodlands, TX, UNITED STATES	

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003162713	A1	20030828	<--
APPLICATION INFO.:	US 2003-368687	A1	20030214 (10)	

RELATED APPLN. INFO.: Division of Ser. No. US 2000-556916, filed on 21 Apr 2000, GRANTED, Pat. No. US 6548271

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-130552P	19990422 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Lance K. Ishimoto, LEXICON GENETICS INCORPORATED, 8800 Technology Forest Place, The Woodlands, TX, 77381
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
LINE COUNT: 4251

AB The present invention provides two novel families of novel human transporter proteins (NTPs). The invention additionally provides for agonists, antagonists, **antibodies**, antisense molecules that are specific for the NTPs, and further provides genetically engineered expression vectors for the NTPs and host comprising the same. The invention further provides for processes for identifying/producing molecules that effect NTP activity which comprise the use of the disclosed NTPs or genes encoding the same.

L99 ANSWER 4 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:207367 USPATFULL
TITLE: Microarray fabrication techniques and apparatus
INVENTOR(S): Chen, Shiping, Fremont, CA, UNITED STATES
Luo, Yuling, Castro Valley, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003143725	A1	20030731	<--
APPLICATION INFO.:	US 2003-351163	A1	20030123 (10)	

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-791994, filed on 22 Feb 2001, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-183737P	20000222 (60)
	US 2000-188872P	20000313 (60)
	US 2000-216265P	20000706 (60)
	US 2000-220085P	20000721 (60)
	US 2000-244711P	20001030 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Charles D. Holland, Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA, 94304-1018
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Page(s)
LINE COUNT: 1821
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a microarray printing system and methods of printing probe microarrays. The system has a print head formed of one or more bundles of individual capillaries, such as light-guiding capillaries. The bundles may especially be random bundles of capillaries that provide a large number of probes on the surface of a substrate. Methods of registering or correlating the distal and proximal ends of the capillaries are also provided. Further, the invention provides methods

and equipment for identifying defective microarrays that are missing one or more probes from the surface of the microarray.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 5 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:152948 USPATFULL
TITLE: Micropatterning surfaces of polymeric substrates
INVENTOR(S): Uhrich, Kathryn E., Plaintield, NJ, UNITED STATES
Buettner, Helen M., West Windsor, NJ, UNITED STATES
Schmalenberg, Kristine, Dunellen, NJ, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003104614	A1	20030605	<--
APPLICATION INFO.:	US 2002-215435	A1	20020809 (10)	

RELATED APPLN. INFO.: Continuation of Ser. No. WO 2001-US4842, filed on 12 Feb 2001, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-181763P	20000211 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS, MN, 55402
NUMBER OF CLAIMS: 56
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1201
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention is directed to an article which has a pattern of biologically active molecules stably adsorbed directly onto a polymeric substrate. The present invention also provides methods for preparing a pattern of biologically active molecules on the surface of a polymeric substrate, which include exposing a polymeric substrate to conditions that increase the polarity of a surface of the polymeric substrate, and contacting that surface with a stamp that includes a micron-sized pattern coated with biologically active molecules. The present invention also provides a method to spatially modulate the growth of a cell which includes contacting a cell with an article of the present invention for a time and under conditions sufficient to adhere the cell to the biologically active molecules and to grow the cell along the micron-sized pattern of biologically active molecules on the polymeric substrate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 6 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:112837 USPATFULL
TITLE: Methods and reagents for improved cell-based assays
INVENTOR(S): Clausell, Adrian, San Diego, CA, UNITED STATES
Gu, Jirong, Irvine, CA, UNITED STATES
Reddy, Parameswara Meda, Brea, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003077569	A1	20030424	<--
APPLICATION INFO.:	US 2001-978498	A1	20011015 (9)	

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BECKMAN COULTER INC, 4300 NORTH HARBOR BOULEVARD, P O BOX 3100, FULLERTON, CA, 928343100
NUMBER OF CLAIMS: 95

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Page(s)
LINE COUNT: 2102
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The ability to efficiently determine the state of enzyme expression in cells has long been desired as material to the diagnosis of disease. This invention relates to cytoenzymology, and more particularly to improved reagents for use in cell-based assays, especially those using fluorogenic substrates.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 7 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:106233 USPATFULL
TITLE: Compositions and methods for the therapy and diagnosis of pancreatic cancer
INVENTOR(S): Benson, Darin R., Seattle, WA, UNITED STATES
Kalos, Michael D., Seattle, WA, UNITED STATES
Lodes, Michael J., Seattle, WA, UNITED STATES
Persing, David H., Redmond, WA, UNITED STATES
Hepler, William T., Seattle, WA, UNITED STATES
Jiang, Yuqiu, Kent, WA, UNITED STATES
PATENT ASSIGNEE(S): Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003073144	A1	20030417	<--
APPLICATION INFO.:	US 2002-60036	A1	20020130	(10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-333626P	20011127 (60)
	US 2001-305484P	20010712 (60)
	US 2001-265305P	20010130 (60)
	US 2001-267568P	20010209 (60)
	US 2001-313999P	20010820 (60)
	US 2001-291631P	20010516 (60)
	US 2001-287112P	20010428 (60)
	US 2001-278651P	20010321 (60)
	US 2001-265682P	20010131 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
LINE COUNT: 14253
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compositions and methods for the therapy and diagnosis of cancer, particularly pancreatic cancer, are disclosed. Illustrative compositions comprise one or more pancreatic tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly pancreatic cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 8 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:102248 USPATFULL
TITLE: Nucleic acids encoding human transporter proteins
INVENTOR(S): Turner, Alex, The Woodlands, TX, United States

Zambrowicz, Brian, The Woodlands, TX, United States
Nehls, Michael, Stockdorf, GERMANY, FEDERAL REPUBLIC OF
Friedrich, Glenn A., The Woodlands, TX, United States
Sands, Arthur T., The Woodlands, TX, United States
PATENT ASSIGNEE(S): Lexicon Genetics Incorporated, The Woodlands, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6548271	B1	20030415	<--
APPLICATION INFO.:	US 2000-556916		20000421	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-130552P	19990422 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Myers, Carla J.
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1,2,3,8
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 4156
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides two novel families of novel human transporter proteins (NTPs). The invention additionally provides for agonists, antagonists, **antibodies**, antisense molecules that are specific for the NTPs, and further provides genetically engineered expression vectors for the NTPs and host comprising the same. The invention further provides for processes for identifying/producing molecules that effect NTP activity which comprise the use of the disclosed NTPs or genes encoding the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 9 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:99695 USPATFULL
TITLE: Use of streptococcus pneumoniae acyl carrier protein synthase crystal structure in diagnostics, antimicrobial drug design, and biosensors
INVENTOR(S): Chirgadze, Nicholas Yuri, Indianapolis, IN, UNITED STATES
Briggs, Stephen Lyle, Indianapolis, IN, UNITED STATES
Zhao, Genshi, Indianapolis, IN, UNITED STATES
McAllister, Kelly Ann, Indianapolis, IN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003068802	A1	20030410	<--
APPLICATION INFO.:	US 2001-897645	A1	20010629	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-215577P	20000630 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ELI LILLY AND COMPANY, PATENT DIVISION, P.O. BOX 6288, INDIANAPOLIS, IN, 46206-6288
NUMBER OF CLAIMS: 31
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 14574
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Provided are methods of purifying and crystallizing Streptococcus pneumoniae acyl carrier protein synthase (AcpS) enzyme, crystals of

AcpS, the use of such crystals to determine the three-dimensional structure of AcpS enzymes, and the three-dimensional structure of AcpS. The three-dimensional crystal structure of AcpS can be used in medical diagnostics to produce **antibodies** that permit detection of Streptococcus pneumoniae both in vitro and in vivo. The three-dimensional crystal structure of AcpS can also be used in pharmaceutical discovery and development to identify and design compounds that inhibit the biochemical activity of AcpS enzyme in bacteria. Inhibitory compounds identified in this way can be optimized by structure/activity studies to develop antibacterial pharmaceutical compounds useful for the prevention or treatment of bacterial infections.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 10 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:57447 USPATFULL
TITLE: Apparatus and method for simultaneously conducting multiple chemical reactions
INVENTOR(S): Barth, Phillip W., Portola Valley, CA, UNITED STATES
Amorese, Douglas A., Los Altos, CA, UNITED STATES
Schembri, Carol T., San Mateo, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003040011	A1	20030227	<--
APPLICATION INFO.:	US 2001-938909	A1	20010824 (9)	

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: AGILENT TECHNOLOGIES, INC., Legal Department, DL429, Intellectual Property Administration, P.O. Box 7599, Loveland, CO, 80537-0599
NUMBER OF CLAIMS: 48
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1624
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method and apparatus for simultaneously conducting multiple chemical reactions combine a test sample with a chemical reactant in a plurality of closed reaction chambers to produce reaction products. The method comprises assembling a plate having the test sample in a plurality of spatially arranged wells with a microarray of similarly spatially arranged surface bound chemical reactants to form the sealed apparatus having the plurality of closed reaction chambers. The apparatus is sealed such that it is gas, liquid and/or fluid tight. The seal may be accomplished with a flexible array substrate or a flexible gasket, and one or more of mechanical clamps, external fluid pressure, radiation, heat, vacuum and an adhesive. The sealed apparatus can be subjected to various reaction conditions, such as intense mechanical agitation and a controlled temperature environment. A kit comprises one or more of the elements of the apparatus.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 11 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:30423 USPATFULL
TITLE: Magnetic immobilization of cells
INVENTOR(S): Casagrande, Rocco, Newton, MA, UNITED STATES
Wang, Evelyn, Haddonfield, NJ, UNITED STATES
Kirk, Gregory, Winchester, MA, UNITED STATES
Nussbaum, Michael, Newton, MA, UNITED STATES
Kim, Enoch, Boston, MA, UNITED STATES
Raphel, Aaron, Somerville, MA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003022370	A1	20030130	<--
APPLICATION INFO.:	US 2002-84063	A1	20020228	(10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-307843P	20010727 (60)
	US 2001-334593P	20011203 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KENYON & KENYON, 1500 K STREET, N.W., SUITE 700, WASHINGTON, DC, 20005
NUMBER OF CLAIMS: 214
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)
LINE COUNT: 1990
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to an apparatus and methods that immobilize one or more cells associated with magnetic material on a substrate on which are located one or more magnetic receptacle(s). Alternatively, in another aspect the present invention, the device arrays cells associated with magnetic material on a substrate having a pattern of magnetic receptacles disposed thereon. The size of the magnetic receptacle(s) determines the number of target cells that it is capable of immobilizing. The size of the magnetic receptacle is defined by the strength of a localized magnetic field gradient. The localized magnetic field gradient maybe derived from 1) permanent magnets embedded in the substrate or alternatively, the localized magnetic field gradient may be derived from an 2) external magnet whose strength is focused by objects of highly-permeable-magnetic material which create localized magnetic field gradients. The invention apparatus comprises a removable cell delivery device and a substrate, which has one or more magnetic receptacles disposed thereon.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 12 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:10636 USPATFULL
TITLE: Directed evolution biosensors
INVENTOR(S): Lerner, Michael R., Rancho Santa Fe, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003008331	A1	20030109	<--
APPLICATION INFO.:	US 2002-229973	A1	20020828	(10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-647653, filed on 4 Oct 2000, GRANTED, Pat. No. US 6475733 A 371 of International Ser. No. WO 1999-US7566, filed on 6 Apr 1999, PENDING			

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-80915P	19980406 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Konstantinos Andrikopoulos, Esq, Wolf,Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA, 02210
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
LINE COUNT: 868
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention exploits the evolutionary principles responsible for the development of the broad spectrum general odorant detector system, to

create a G-protein coupled receptor (GPCR) based system capable of detecting and discriminating between thousands of chemicals. The means is to subject a defined set of receptors such as G-protein coupled receptors, tyrosine kinase receptors, and/or ion channels, to the types of evolutionary forces that have created the array of approximately 1,000 natural receptors used in general olfaction by higher animals. This goal is accomplished by `directed evolution-in-a-test-tube` by imposing very high rates of mutation and extremely strict selection criteria to create a sensor. The novel sensor is selected using a sensitive melanophore-based functional bioassay. Stimulation of the sensor upon interaction with chemical signatures derived from ordinances will result in a calcium ion flux rapidly detectable as a fluorescent signal.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 13 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:308336 USPATFULL
TITLE: Methods for enhancing the efficacy of cancer therapy
INVENTOR(S): Pennica, Diane, Burlingame, CA, UNITED STATES
Polakis, Paul, Burlingame, CA, UNITED STATES
Szeto, Wayne, San Francisco, CA, UNITED STATES
Tice, David, San Mateo, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002173461	A1	20021121	<--
APPLICATION INFO.:	US 2001-901812	A1	20010710 (9)	

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-228914P	20000829 (60)
	US 2000-175849P	20000113 (60)
	US 2000-197089P	20000414 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 620 NEWPORT CENTER DRIVE, SIXTEENTH FLOOR, NEWPORT BEACH, CA, 92660
NUMBER OF CLAIMS: 66
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 47 Drawing Page(s)
LINE COUNT: 4875
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention concerns the identification of tumor antigens the expression of which is selectively upregulated by retinoid treatment. The invention further concerns improved methods of cancer treatment and, in particular, methods enhancing the efficacy of the treatment of cancers characterized by aberrant Wnt signaling by administration of retinoic acid or other retinoids.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 14 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:290729 USPATFULL
TITLE: Cell surface receptors for the detection and identification of compounds
INVENTOR(S): Lerner, Michael R., Dallas, TX, United States
PATENT ASSIGNEE(S): Lerner Pharmaceuticals, Inc., Woodbridge, CT, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6475733	B1	20021105	<--
	WO 9951777		19991014	<--

APPLICATION INFO.: US 2000-647653 20001004 (9)
WO 1999-US7566 19990406
20001204 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-80915P	19980406 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Horlick, Kenneth R.
LEGAL REPRESENTATIVE: Wolf, Greenfield & Sacks, P.C.
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 959
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention exploits the evolutionary principles responsible for the development of the broad spectrum general odorant detector system, to create a cell-surface receptor based system capable of detecting and discriminating between thousands of chemicals. This is accomplished by subjecting a defined set of cell-surface receptors such as G-protein coupled receptors, tyrosine kinase receptors, and/or ion channels, to the types of evolutionary forces that have created the array of approximately 1,000 natural receptors used in general olfaction by higher animals. This goal is further accomplished by a `directed evolution-in-a-test-tube` method, imposing very high rates of mutation and extremely strict selection criteria to create a sensor. The novel sensor of the present invention is selected using a sensitive melanophore-based functional bioassay.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 15 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:272801 USPATFULL
TITLE: Compositions and methods for the therapy and diagnosis of colon cancer
INVENTOR(S): Stolk, John A., Bothell, WA, UNITED STATES
Xu, Jiangchun, Bellevue, WA, UNITED STATES
Chenault, Ruth A., Seattle, WA, UNITED STATES
Meagher, Madeleine Joy, Seattle, WA, UNITED STATES
PATENT ASSIGNEE(S): Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002150922	A1	20021017	<--
APPLICATION INFO.:	US 2001-998598	A1	20011116	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-304037P	20010710 (60)
	US 2001-279670P	20010328 (60)
	US 2001-267011P	20010206 (60)
	US 2000-252222P	20001120 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
LINE COUNT: 9233
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for the therapy and diagnosis of cancer, particularly colon cancer, are disclosed. Illustrative compositions

comprise one or more colon tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly colon cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 16 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:243051 USPATFULL
TITLE: Compositions and methods for the therapy and diagnosis of ovarian cancer
INVENTOR(S): Algate, Paul A., Issaquah, WA, UNITED STATES
Jones, Robert, Seattle, WA, UNITED STATES
Harlocker, Susan L., Seattle, WA, UNITED STATES
PATENT ASSIGNEE(S): Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002132237	A1	20020919	<--
APPLICATION INFO.:	US 2001-867701	A1	20010529	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-207484P	20000526 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
LINE COUNT: 25718
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compositions and methods for the therapy and diagnosis of cancer, particularly ovarian cancer, are disclosed. Illustrative compositions comprise one or more ovarian tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly ovarian cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 17 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:242791 USPATFULL
TITLE: Compositions and methods for the therapy and diagnosis of colon cancer
INVENTOR(S): King, Gordon E., Shoreline, WA, UNITED STATES
Meagher, Madeleine Joy, Seattle, WA, UNITED STATES
Xu, Jiangchun, Bellevue, WA, UNITED STATES
Secrist, Heather, Seattle, WA, UNITED STATES
PATENT ASSIGNEE(S): Corixa Corporation, Seattle, WA, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002131971	A1	20020919	<--
APPLICATION INFO.:	US 2001-33528	A1	20011226	(10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2001-920300, filed on 31 Jul 2001, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-302051P	20010629 (60)
	US 2001-279763P	20010328 (60)
	US 2000-223283P	20000803 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
LINE COUNT: 8083
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for the therapy and diagnosis of cancer, particularly colon cancer, are disclosed. Illustrative compositions comprise one or more colon tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly colon cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 18 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:235434 USPATFULL
TITLE: Biosensors, reagents and diagnostic applications of directed evolution
INVENTOR(S): Minshull, Jeremy, Menlo Park, CA, UNITED STATES
Davis, S. Christopher, San Francisco, CA, UNITED STATES
Welch, Mark, Fremont, CA, UNITED STATES
Raillard, Sun Ai, Mountain View, CA, UNITED STATES
Vogel, Kurt, Palo Alto, CA, UNITED STATES
Krebber, Claus, Mountain View, CA, UNITED STATES
PATENT ASSIGNEE(S): Maxygen, Inc., Redwood City, CA (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002127623	A1	20020912	<--
APPLICATION INFO.:	US 2001-920607	A1	20010731 (9)	

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-222056P	20000731 (60)
	US 2000-244764P	20001031 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: LAW OFFICES OF JONATHAN ALAN QUINE, P O BOX 458, ALAMEDA, CA, 94501
NUMBER OF CLAIMS: 130
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)
LINE COUNT: 6877
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods for sensing test stimuli using arrays of biopolymers are provided. Libraries of biopolymers, such nucleic acid variants, and expression products encoded by nucleic acid variants are provided. Reusable library arrays, and methods for their use are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 19 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:228458 USPATFULL
TITLE: Novel human kinase and polynucleotides encoding the

same
INVENTOR(S): Walke, D. Wade, Spring, TX, UNITED STATES
Miranda, Maricar, Houston, TX, UNITED STATES
Yu, Xuanchuan (Sean), Houston, TX, UNITED STATES
Friddle, Carl Johan, The Woodlands, TX, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002123621	A1	20020905	<--
APPLICATION INFO.:	US 2001-16985	A1	20011207	(10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-251941P	20001207 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Lance K. Ishimoto, Lexicon Genetics Incorporated, 4000 Research Forest Drive, The Woodlands, TX, 77381
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
LINE COUNT: 1067
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel human polynucleotide and polypeptide sequences are disclosed that can be used in therapeutic, diagnostic, and pharmacogenomic applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 20 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:206113 USPATFULL
TITLE: Secreted factors
INVENTOR(S): Stanton, Lawrence W., Redwood City, CA, UNITED STATES
White, R. Tyler, Fremont, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002110804	A1	20020815	<--
APPLICATION INFO.:	US 2001-809545	A1	20010314	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-193548P	20000331 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 620 NEWPORT CENTER DRIVE, SIXTEENTH FLOOR, NEWPORT BEACH, CA, 92660
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 59 Drawing Page(s)
LINE COUNT: 5729
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention concerns new secreted factors encoded by clones P00184_D11 (SEQ ID NO:1), P00185_D11 (SEQ ID NO:3), P00188_D12 (SEQ ID NO:5), P00188_E01 (SEQ ID NO:7), P00194_G01 (SEQ ID NO:9), P00194_G05 (SEQ ID NO:11), P00194_H10 (SEQ ID NO:13), P00199_D08 (SEQ ID NO:15), P00203_D04 (SEQ ID NO:17), P00203_E06 (SEQ ID NO:19), P00209_F06 (SEQ ID NO:21), P00219_D02 (SEQ ID NO:23), P00219_F06 (SEQ ID NO:25), P00220_H05 (SEQ ID NO:27), P00222_G03 (SEQ ID NO:29), P00225_CO1 (SEQ ID NO:32), P00227_D11 (SEQ ID NO:34), P00228_F03 (SEQ ID NO:36), P00233_H08 (SEQ ID NO:38), P00235_G08 (SEQ ID NO:40), P00239_C11 (SEQ ID NO:42), P00240_E05 (SEQ ID NO:45), P00247_A04 (SEQ ID NO:50), P00248_B04 (SEQ ID NO:52), P00249_F09 (SEQ ID NO:54), P00258_A10 (SEQ ID NO:56), P00262_C10 (SEQ ID NO:58), P00269_H08 (SEQ ID NO:62), P00628_H02 (SEQ ID NO:66), P00629_C08 (SEQ ID NO:68), P00641_G11 (SEQ ID NO:71), P00648_E12 (SEQ ID NO:73), P00697_C03

(SEQ ID NO:75), and other mammalian homologues and variants of such factor, as well as polynucleotides encoding them. The invention further concerns methods and means for producing such factors and their use in the diagnosis and treatment of various cardiac, renal or inflammatory diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 21 OF 23 USPATFULL on STN

ACCESSION NUMBER:	2002:181558 USPATFULL			
TITLE:	Low volume chemical and biochemical reaction system			
INVENTOR(S):	Jovanovich, Stevan B., Livermore, CA, United States Roach, David J., Los Gatos, CA, United States Hadd, Andrew G., San Jose, CA, United States Hellman, Bo E. R., Palo Alto, CA, United States			
PATENT ASSIGNEE(S):	Molecular Dynamics, Inc., Sunnyvale, CA, United States (U.S. corporation)			
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6423536	B1	20020723	<--
APPLICATION INFO.:	US 2000-577199		20000523	(9)
	NUMBER		DATE	
PRIORITY INFORMATION:	US 1999-146732P		19990802	(60)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	GRANTED			
PRIMARY EXAMINER:	Beisner, William H.			
LEGAL REPRESENTATIVE:	Schneck, Thomas, Schneck, David M.			
NUMBER OF CLAIMS:	64			
EXEMPLARY CLAIM:	1,26,36,47			
NUMBER OF DRAWINGS:	33 Drawing Figure(s); 20 Drawing Page(s)			
LINE COUNT:	2260			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method and device for preparing nanoscale reactions. An automated system utilizes an array of reaction chambers. The ends of the chambers are temporarily sealed with deformable membranes and reactions effected by incubation or temperature cycling. Reaction mixtures may be assembled by using the reaction containers to meter reaction components. After the reaction is finished, the reaction containers may be dispensed onto a substrate and the reaction products analyzed. An automated transfer device may be used for automated transport of the reaction container array or other transportable elements.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 22 OF 23 USPATFULL on STN

ACCESSION NUMBER:	2002:99083 USPATFULL			
TITLE:	Microarray fabrication techniques and apparatus			
INVENTOR(S):	Chen, Shiping, Rockville, MD, UNITED STATES Luo, Yuling, Castro Valley, CA, UNITED STATES			
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002051979	A1	20020502	<--
	US 6594432	B2	20030715	
APPLICATION INFO.:	US 2001-791994	A1	20010222	(9)
	NUMBER		DATE	
PRIORITY INFORMATION:	US 2000-183737P		20000222	(60)
	US 2000-188872P		20000313	(60)
	US 2000-216265P		20000706	(60)

	US 2000-220085P	20000721 (60)
	US 2000-244711P	20001030 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Charles D. Holland, Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA, 94304-1018
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Page(s)
LINE COUNT: 1823
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a microarray printing system and methods of printing probe microarrays. The system has a print head formed of one or more bundles of individual capillaries, such as light-guiding capillaries. The bundles may especially be random bundles of capillaries that provide a large number of probes on the surface of a substrate. Methods of registering or correlating the distal and proximal ends of the capillaries are also provided. Further, the invention provides methods and equipment for identifying defective microarrays that are missing one or more probes from the surface of the microarray.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L99 ANSWER 23 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2001:188804 USPATFULL
TITLE: Novel human membrane protein and polynucleotides encoding the same
INVENTOR(S): Walke, D. Wade, Spring, TX, United States
Wilganowski, Nathaniel L., Houston, TX, United States
Turner, C. Alexander, JR., The Woodlands, TX, United States
Friedrich, Glenn, Houston, TX, United States
Abuin, Alejandro, The Woodlands, TX, United States
Zambrowicz, Brian, The Woodlands, TX, United States
Sands, Arthur T., The Woodlands, TX, United States

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2001034438	A1	20011025	<--
APPLICATION INFO.:	US 2001-755017	A1	20010105	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-175764P	20000112 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: LEXICON GENETICS INCORPORATED, 4000 RESEARCH FOREST DRIVE, THE WOODLANDS, TX, 77381
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 2038
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The nucleotide and amino acid sequences of a novel human G protein-coupled receptor (NGPCR) is disclosed. The NGPCR is somewhat similar to human latrophilin, lectomedin, and serpentine, proteins, among others.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.